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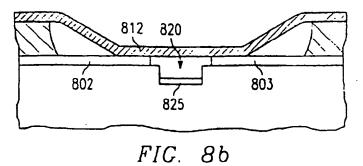
(54) Improved switches

(57) Micromechanical microwave switches with both ohmic and capacitive coupling (802, 812, 803) of rf lines and integration in multiple throw switches useful in microwave arrays.

The invention can be embodied in the form of a

phase shifter, a time delay network, a filter selective network or in an integrated circuit.

The invention has advantages including switches with no power consumption, low cost, linearity and also compatability with both Silicon and Gallium arsenide intergrated circuits.





EUROPEAN SEARCH REPORT

Application Number EP 95 39 7675

Category	Citation of document with i of relevant pa	ndication, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CL6)
γ	US 5 258 591 A (BUCK) 2 November 1993 * column 1, line 50 - line 60 * * column 2, line 29 - line 31 * * column 3, line 29 - column 4, line 25; figures 1,2 *		1,2	H01P1/12 H01P1/18 H01P9/00
Y	US 4 405 907 A (BRE September 1983 * column 2, line 58 figure 4 *	ESE ET AL.) 20 3 - column 3, line 23;	1,2	
X	US 5 051 643 A (DWORSKY ET AL.) 24 September 1991 * the whole document *		7	
Y			3-6	
Y	US 4 779 097 A (MOF * column 3, line 44	RCHIN) 18 October 1988 L - line 63; figure 5 *	3,4	
Y .	FR 2 539 933 A (THOMSON-CSF) 27 July 1984 * page 5, line 28 - page 6, line 18; figure 4 *		5,6	TECHNICAL FIELDS SEARCHED (Int.Cl.6)
X	WO 94 18688 A (BROO August 1994 * page 6, line 31 - figures 1-3 *	DKTREE CORPORATION) 18 page 12, line 24;	7	H01P H01H H01Q
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	The present search report has i	neen drawn up for all claims		
	Place of search	Date of completion of the search		Exemplace
	THE HAGUE	17 June 1997	Der	Otter, A
X : pro	CATEGORY OF CITED DOCUME ticularly relevant if taken alone ticularly relevant if combined with an	E : earlier patent do after the filing d	ole underlying the cument, but pub- late	: invention lished on, or



EUROPEAN SEARCH REPORT

Application Number

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P,X	IEEE MTT-S INTERNATI SYMPOSIUM DIGEST, OF 1995, vol. 1, 16 May 1995, pages 91-94, XP00053 GOLDSMITH C ET AL: MEMBRANE SWITCHES FO APPLICATIONS* * the whole document	RLANDO, MAY 16 - 20, KIRBY L (ED), 18549 "MICROMECHANICAL OR MICROWAVE	1-7	TECHNICAL FIELDS SEARCHED (Int.Cl.6)
	The present search report has be		_	Exertar
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